APPLIED MATHEMATICS AND COMPUTATION

VOLUME 37

RENZO MOSETTI
On a Possible Interpretation of Market Dynamics Based on the Internal Model Principle 1

LARRY ENO
Sensitivity Analysis of Experimental Data. II. New Coefficients 9

JAN MANDEL AND SEYMOUR V. PARTER
On the Multigrid F-Cycle 19

W. H. CHOE AND K. KIM
Variational Analysis of a Plasma-Arc Armature inside a Railgun Solid-Hydrogen-Pellet Accelerator for Fueling Fusion Reactors 37

HIDEAKI KANEKO AND RICHARD NOREN
An Application of Approximation Theory to the Numerical Solution of a Fredholm Equation with a Mild Singularity 57

MICHAEL CONRAD AND KOICHIRO MATSUNO
The Boundary Condition Paradox: A Limit to the Universality of Differential Equations 67

ZDENĚK DOSTÁL
Projector Preconditioning and Domain Decomposition Methods 75

Y. N. REDDY
A Numerical Integration Method for Solving Singular Perturbation Problems 83

A. K. Mitra
A Neighborhood Magnification Method for Solving Implicit Equations In Two Variables 97

Gary R. Waissi
A New $O(n^2)$ Shortest Chain Algorithm 111

Kevin A. O'Neil
The Continuation Method for Rational and Deficient Systems 121

Keith P. Sharp
Stochastic Differential Equations in Finance 131

R. M. Barron and M. H. Hamdan
The Steady Motion of an Incompressible Dusty Gas in Porous Media 149

M. E. Thompson
Optimal Nonparametric Estimation for Some Semimartingale Stochastic Differential Equations 169

A. J. Heunis
On the Stochastic Differential Equations of Filtering Theory 185